Index to Volume XXX.

March 1907 to August 1907.

Accounting—A Simple Foundry Cost System... 173
" Brass Foundry 42
" Foundry Cost 125
" Methods of Keeping Foundry Costs 130
Air Compressor, The New Franklin..... 435
Ajax Forging Machine Frame Casting, Pattern for a 223
Alloys of Copper and Aluminum..... 110
" Peculiar Properties of..... 19
" Some Peculiarities of..... 483
Aluminum and Copper, Alloys of..... 110
" Castings 160
" Furnace, The Cleveland..... 313
American Brass Founders' Association, Officers of 377
" " " " Organization of 377
American Foundrymen's Association, Enrolment at Philadelphia Convention..... 398
American Foundrymen's Association, History of 238
" " " Officers for 1907-08 355
American Foundrymen's Association, Paper for Philadelphia Meeting 296
American Foundrymen's Association, Philadelphia Convention 71-128-192-198-331
American Foundrymen's Association, Secretary's Report 340
American Foundrymen's Association, Testing Department, Permanent 338
Analyses of Foundry Irons, Standard..... 94
Analysis of Iron, Standard Methods for..... 344
Annealing Gray Iron Castings..... 196
" Malleable Castings 60
Apprentice, A Plea for the..... 523
Apprentices, Training of, in Foundry Work.... 451
Arrangement of a Pattern Shop in a Confined Space 464
Art of Galvanizing, The.....417-486
Associated Foundry Foremen, Convention of..129-441
" " " History of 251
Association Directory 74
" Foundry Supply, History of..... 248
Associations and Societies.....69-130-200-326-527
Aupperle, James A., Combustion Apparatus of.. 96
Autogenous Welding of Steel..... 65
Automatic Sand Conveying System..... 171
Automobiles, Bronze Castings for..... 277
Babcock & Wilcox Co., Barberton, O., New Gray Iron Foundry of..... 1
Band Saw, Crescent Machine Co.'s Improved.. 142
Bed, Cast Iron Pig..... 30
Bench, Patternmaker's 190
" Snap, Homogeneous Mixer Mfg. Co.'s 51
Bonvillain, Ph., & E. Ronceray—Continuous Sand Mill of..... 47
Bonvillain, Ph., & E. Ronceray—Universal Molding Machines 298-361
Book Reviews 199
Borings, Steel and Wrought Iron, Use of..... 297
Bosses, Securing on Patterns..... 526
Bottom Board, Macphail Steel..... 314
Brass Castings for Journal Bearings..... 108
" " Weight of 44
Dowel Pins, Inserting..... 538
Brass, Electro-deposition of 413
" Founders, Organization of.....129-377
" " Points for 108
" Foundry Cost Accounting..... 42
" " Notes 44-112-166-290-484
" " Regulations, New English..... 479
" Foundries, Skin Drying Stove for..... 433
" Gray Finish for..... 276
" Industry, Science Applied to the..... 480
" Linings for Pumps..... 111
" Patterns, Mixtures for..... 44
" Reclaiming from Rumbling Mud..... 166
" Scrap, Heavy, for Light Castings..... 114
" Shells for Paper Mill Rolls..... 45
" Stirring Without Bad Effects..... 115
" Works, The Langsenkamp-Wheeler..... 282
Brasses and Bronzes, Laboratory..... 168
British Foundrymen's Association..... 69
" " " Birmingham Branch 132
British Foundrymen's Association, Lancashire Branch 136-329
British Notes 68-69-112-172-518
Bronze Castings for Automobiles..... 277
" " Notes on 382
" Soft, Mixtures for..... 416
" Statuary, Mixture for..... 44
" U. S. Standard..... 168
Buffalo Foundrymen's Association, History of.. 248
" Furnace Works, New Malleable Melting Furnace of 53-434
Buhl, Theodore D. Obituary..... 159
Bung for Malleable Furnace..... 83
Burner, Oil, Request for..... 197
Caley, Chas. J. Sketch and Portrait. 378
Car Wheel Molds, Rotating while Casting..... 95
" Wheels, Cast Steel..... 512
Carbon, Determination of Total..... 347
" Effect of Increasing the Proportion of Combined 79
Carbon in Iron and Steel, Rapid Determination of 96
Carnegie Institute Dedicated..... 159
Cast Iron, Manganese in..... 476
" " Microscopic Testing of..... 132
" " Microstructure of 79
" " Notes 56-94-196-297-513
" " Pig Bed 30
" " Steel Scrap in..... 95
" Steel Car Wheels..... 512
" Thread Fittings 358
Casting, A Peculiar Chilled..... 18
" Copper 288
" Liners and Pump Plungers..... 110
" Rolls for Bending Boiler Plate..... 219
" Threads in Castings..... 196
" Under Difficulties 458
Castings, Aluminum 160
" Analysis of Stove..... 197
" Annealing Gray Iron..... 196
" Annealing Malleable 60
" Bronze, for Automobiles..... 277
" " Notes on 382
" Defective 18
" Direct Metal 237-276
" Gray Iron, with Cast Threads..... 358
" Heavy Brass Scrap for Light..... 114
" Iron, for Sewing Machines..... 297
" " Some Causes of Failure in Service 461
" Pickling 196
" Pitted 57
" Quality of at First and Last of heat 302
" Sandless 455
" Seamed 178
" Sound 516
" Thin, with Hard Cores..... 96
" Weight of Brass..... 44
Chemical Properties of Malleable Cast Iron..216-376
Chemist, Reign of the..... 67
Chicago Foundry Foremen, History of..... 257
" Pneumatic Tool Co.'s Franklin Air Compressor 435
Chilled Casting, A Peculiar..... 18
Chords, Computing Length of..... 99
Cincinnati Foundry Foremen, History of..... 261
" Industrial Bureau Dinner..... 41
Clamps for the Foundry and Pattern Shop.... 534
Cleveland Aluminum Furnace..... 313
" Club of Patternmaker Foremen, History of 280
" Foundry Foremen, History of..... 260
" Sprue Cutter 434
Coke, Quality of, Determination from Appearance 512
" Supply, Connellsville 89
Collapsible Patterns 116
Condenser, Molding a Surface..... 116

Connellsville Coke Supply..... 89
Construction, New 77-143-210-330-450
Controllers, Electric Controller & Supply Co.'s 49
Convention, Philadelphia, Enrolment at..... 398
Conveying System, Automatic Sand..... 171
Copper, Casting of..... 288
" for the Foundry..... 374
" Production of, in the United States.. 373
Core Box for Four-Step Cone Pulley..... 38
" Foot Lever 493
" Oven, A Portable..... 205
" Oven and Sand Drier, Day's Patent Sectional 137
" Pasting Machine 532
" Room Practice, Past and Present..... 72
" Thin, Inserting Wire in a..... 526
Cores, Oil Sand..... 95
" Valve, Improved Method of Turning..... 15
Cost Investigation, Foundry..... 195
" Manufacturing 62
" Methods, Ways of Securing..... 349
" System, A Simple Foundry..... 173
" " for Jobbing Work..... 173
" " Jobbing Foundry 84
Costs, Foundry, Methods of Keeping..... 130
" Report of American Foundrymen's Assn. Committee on 348
Crane, Curtis Double I-Beam Traveling..... 48
Crescent Band Saw..... 142
Crucible Furnace, Improved Sheeler-Hemsher.. 380
Cupola, Dimensions of a..... 56
" Installation, A Model..... 184
" Practice, Comparative 370
Curtis Double I-Beam Traveling Crane..... 48
Dahl Automatic Drill Grinder..... 137
Day's Patent Sectional Core Oven..... 137
Determination of Carbon in Iron and Steel, Rapid 96
Determination of Coke Quality from its Appearance 512
Detroit Steel Casting Co., New Plant of..... 100
Direct Metal Castings.....237-276
Disc Grinder and Slitter..... 140
Dowel Pins, Brass, Inserting..... 538
Drawing Temper when Turning Hard Wood.. 523
Drill Grinder, Dahl Automatic..... 137
Education, Technical Foundry.....9-67-99
Electric Smelting 82
Electro-deposition of Brass..... 413
" " Zinc 479
Engineering Building Dedicated..... 237
English Brass Foundry Regulations, New..... 479
Erie Foundry Foremen, History of..... 280
Evolution of Foundry Practice..... 325
Exhibits of Foundry Supplies and Equipment 291
Falls Gagger Mold..... 310
Farnham Sand Blast Machine..... 139
Ferro-Silicon, Use of..... 201
Filleting Irons, Wax..... 191
Fires 78-210
Fisher Oil Melting Furnace..... 313
Fittings, Cast Thread..... 358
Flagg, Stanley G., Jr., Sketch and Portrait.... 346
Flask, Milwaukee Snap..... 207
Fluxes and Alloys..... 200
" Use of 200
Fluxine, A New Metal Cleaner..... 140
Foot Lever Core 493
Founders, Jobbing, History of Organization.... 247
Foundry, A Model Gray Iron (Westinghouse Elec. & Mfg. Co.)..... 303
Foundry, A Modern Gray Iron (Babcock & Wilcox Co.) 1
Foundry, Copper for the..... 374
" Cost Accounting 125
" " " Brass 42
" " Investigation 195
" " System, A Jobbing..... 84
" " " " Simple 173
" Costs, Methods of Keeping..... 130
" Course at University of Minnesota 211
" Detroit Steel Casting Co.'s..... 100
" Education, Technical 9-67-99
" Electric Smelting for the..... 82
" Exhibit at Lewis Institute..... 326
" Foremen, Associated, Annual Meeting of 441
" Foremen, Associated, History of.... 251
" Iron 94
" " Characteristics of 20-69
Foundry Irons, Mixing of.....25-27
" " Standard Analyses of..... 94
" Malleable, as a Business Venture.... 521
" Open-Hearth and Converter Steel Casting 100
" Practice, Instruction Papers in..... 412
" Science in the..... 91
" Supply Association 68-73-192
" " " Comments on Exhibitors 387
" Supply Association Exhibits at Philadelphia Convention 291-391
" Supply Association, History of..... 248
" " " Meeting at Philadelphia 384
" Supply Association, Officers of..... 384
" Supplies and Equipment, Exhibits of 291
" Pig Iron Specifications..... 272
" Progress, Eleven Years of..... 324
" Work, Metallography Applied to (VII) 79
" Work, Training in, at Pratt Institute 494
" Work, Training of Apprentices in.. 451
Foundrymen's Association, Buffalo, History of 248
" " New England, History of 244
" " Pacific Coast, History of 247
" " Philadelphia, History of..... 241
" " Pittsburg, History of 246
Franklin Air Compressor..... 435
French Sand, Use of..... 166
Friction Cone, Pattern for..... 38
Furnace, Fisher Oil Melting..... 313
" Malleable, Buffalo Furnace Works...53-434
" Oil, vs. Sheeler-Hemsher Improved Crucible 380
Gagger Mold, The Falls..... 310
" " Water Cooled 140
Galvanizing, Dry 427
" The Art of.....417-486
Glass, Liquid, Use of..... 41
Glenwood Rockover Molding Machine..... 311
Grading of Foundry Pig Iron..... 272
Graphite, Determination of..... 348
Griffin, Thomas F., Obituary..... 58
Griffith Molding Machines..... 316
Grinder, Dahl Automatic Drill..... 137
Gun Metal 454
Hanna Electric Sand Shaker..... 310
Herman Molding Machine..... 439
Hoist, Air Motor..... 314
Home Stove Works, Cupola Installation at..... 184
Hopper, Pattern for a Double Chute..... 185
Hot Shot 97-171
Hygiene, Industrial, Improvements in..... 111
India's Manganese Ore..... 234
Industrial Notes, General.....75-143-209-330-449-539
Ingersoll-Rand Co.'s Air Motor Hoist..... 314
Inserting Brass Dowel Pins..... 538
" Wire in a Thin Core..... 526
Instruction Papers in Foundry Practice..... 412
Iron Castings, Annealing Gray..... 196
" " Some Causes of Failure in Service 461
" Effect of Strains in Cold Worked..... 68
" Foundry, A Model Gray..... 303
" " A Modern Gray..... 1
" " Characteristics of 20-94
" " Microconstituents of 21
" Malleable, Chemical Properties of.....216-376
" " Manufacture of 154
" Manufacture of 273
" Standard Methods of Analysis for..... 344
Irons, Wax Filleting..... 191
Jobbing Founders, Organization of..... 247
" Foundry Cost System..... 84
Killing Rollover Molding Machines..... 440
Laboratory Brasses and Bronzes..... 168
Ladle, Combined Bull and Pouring..... 517
Langsenkamp-Wheeler Brass Works..... 282
Lewis Institute, Foundry Exhibit at..... 326
Liners and Pump Plungers, Casting..... 110
" Gun Metal 112-178
Liquid Glass, Use of..... 41
McCarter, W. W.—Foundry Instruction Papers 412
McFadden, W. H. Portrait..... 238

HcFadden, W. H., Presidential Address, A. F. A. Convention..... 332
McCormick, J. S., Co.—Continuous Sand Mixer 204
McMillan, William C. Obituary..... 126
Machine Molding, Universal System of..... 361
Macphail Steel Bottom Board..... 314
Malleable and Gray Iron, Comparison of..... 216
" Cast Iron, Chemical Properties of..216-376
" Castings Annealing 60
" Foundry, The, as a Business Venture 521
" Furnace Bung 83
" " of Buffalo Furnace Works.53-434
" Iron, Annealing 216
" " " Pots for 302
" " Manufacture of 154
" " Physical Properties of..... 154
Manganese, Determination of..... 346
" in Cast Iron..... 476
" Use of 200
"Mann's Tonnage Conversion Tables" (New Book) 199
Manufacturing Cost 62
Massachusetts Fan Co., New Plant of..... 49
Metal, Extruded 290
" Gun 454
" Patterns, Mixture for..... 44
Metallography Applied to Foundry Work (VII) 79
Metalloids, Effect on Foundry Irons..... 22
Microscopic Testing of Cast Iron..... 132
Microstructure of Cast Iron..... 79
Middleditch, Benj.—Sprue Cutter..... 316
Mill, Continuous Sand..... 47
Milwaukee Foundry Foremen, History of..... 259
Mine Car Wheels, Cracking of..... 196
Moldenke, Dr. Richard—Portrait..... 246
Molds, Cracking of Bottle..... 94
Molding a Double Flange Pulley by Machine 90
" Heavy Ajax Forging Machine Frame Casting 230
" Machine Exhibit 71
" " Glenwood Rockover 311
" " Griffith 316
" " Herman 439
" " Killing Rollover 440
" " Pridmore Rockover Drop.. 319
" " Twentieth Century 317
" Machines, Universal—Ph. Bonvillain & E. Ronceray.....298-361
Motor Hoist, Air..... 314
Mumford, Edgar H., Sketch and Portrait..... 386
" Loose Ring Riddle..... 432
National Foundry Co., Steel Foundry of..... 145
New England Foundrymen's Association..... 72
" " " " History of 244
New York Foundry Foremen, Officers of..... 412
Nordberg Mfg. Co.'s Profit Sharing Plan..... 83
Northwestern Malleable Iron Co., Rapid Growth of 463
Obituary 58-126-448-492
Oil Burner, Request for..... 197
" Furnace vs. Sheeler-Hemsher Improved Crucible Furnace 380
" Melting Furnace, Fisher..... 313
" Sand Cores 95
Oils, Fuel, Sulphur in..... 195
Open-Hearth Practice, Cold Air in..... 95
" Steel Casting Plant, A Modern Acid 145
" Steel Foundries, Cost of Equipping 179
Pacific Coast Foundrymen's Association, History of 247
Paper Weights, Casting Bronze Monogram..... 167
Pattern, A Double Chute Hopper..... 185
" for a Heavy Ajax Forging Machine Frame Casting 223
" Shop, Arrangement of, in a Confined Space 464
Patterns, Collapsible 116
" Ruddy Process for Locating on Molding Machines 138
" Securing Bosses on..... 526
" White Metal 290
Patternmaking, Segment Work..... 32
Paxson, J. W., Co., Skin Drying Stove for Brass Foundries 433
Personals 59-125-180-325-431-454
Philadelphia Convention of American Foundrymen's Association 331
Philadelphia Foundry Foremen, History of..... 260
Philadelphia Foundrymen's Association..... 70
" " " History of 241
Phosphorus, Determination of..... 346
Pickling Castings 196
Pig Bed, Cast Iron..... 30
" Iron Production, Record..... 67
" " Specifications, Foundry 272
" " " Standard 94
Pittsburg Foundry Waterlogged..... 182
" Foundrymen's Association, History of 246
Plea for the Apprentice, A..... 523
Polishing, Automatic 379
Pratt Institute, Training in Foundry Work at 494
Pridmore Rockover Drop Molding Machine.... 319
Pulley, Double Flange, Molding by Machine... 90
" Four-step Cone, Core Box for..... 38
Pumps, Brass Linings for..... 111
Pyrometer, Portable 533
Riddle, Mumford Loose Ring..... 432
Rolls for Bending Boiler Plate, Casting of.... 219
" Paper Mill, Brass Shells for..... 45
Rotating Car Wheel Molds while Casting..... 95
Ruddy Process for Locating Patterns on Molding Machines 138
Sand Blast Machine, Farnham..... 139
" Blasting Appliances 235
" Conveying System, Automatic..... 171
" How Much Sand Should a Molder Use? 520
" Mill, Continuous (Ph. Bonvillian & E. Ronceray) 47
" Mixer, Continuous (J. S. McCormick Co.) 204
" Paper Holder and Bench..... 190
" Shaker, Hanna Electric..... 310
" Use of French..... 166
Sandless Castings 455
Sea Coal Mixture, Theory of..... 61
Science Applied to the Brass Industry..... 480
" in the Foundry..... 91
Scrap, Steel, Use of..... 197
Scullin-Gallagher Iron & Steel Co., Plant of.. 262
Securing Bosses on Patterns..... 526
Segment Work 32
Sheeler-Hemsher Improved Crucible Furnace... 380
Shells, Brass, for Paper Mill Rolls..... 45
Sherardizing Process 427
Shop Kinks, or Short Cuts, and Don'ts..... 467
Shovel, Molder's Flat Back..... 52
Silicon-Copper, Use of..... 290
Silicon, Determination of..... 345
Slitter and Disc Grinder..... 140
Smelting, Electric 82
Snap Bench 51
" Flask, Milwaukee 207
Sound Castings 516
Specifications for Foundry Pig Iron..... 272
Sprue Cutter (Benj. Middleditch)..... 316
" " The Cleveland 434
Standard Methods for the Analysis of Iron.. 344
Standard Sand & Machine Co.'s Sand Conveying System 171
Statuary, Bronze 44
Steel and Wrought Iron Borings..... 297
" Autogenous Welding of..... 65
" Car Wheels, Cast..... 512
" Casting Industry, Growth of..... 300
" " Plant, A Modern Acid Open-Hearth 145
" " Practice, Open-Hearth, Cold Air in 95
" Castings, Foundry for Open-Hearth and Converter 100
" " Tropenas 515
" Foundry Plant of Scullin-Gallagher Iron & Steel Co..... 262
" " Plants, List of New..... 301
" Foundries, Cost of Equipping Open-Hearth 179
" Scrap in Cast Iron..... 95
" " Use of 197
Stockham Homogeneous Mixer Mfg. Co.'s Snap Bench 51
Stove Castings, Analysis of..... 197
Stove, Skin Drying, for Brass Foundries..... 433
Sulphur, Determination of..... 345
" in Fuel Oils..... 195
Technical Papers, Value of..... 19
Temper, Drawing, when Turning Hard Wood.. 523
Threads, Cast 358
Time Lost in the Core Room..... 38
Tin Foil, Use of..... 115

Trade Notes 53-141-207-322-444-534
Trade Outlook 66-124-199-325-447-524
Trade Publications 54-123-181-323-536
Tropenas Steel Castings..... 515
" " Foundry, A New..... 383
Turbo-generator, Mold for..... 309
Twentieth Century Molding Machine..... 317
Uniform Methods of Cost Finding, Report of A. F. A. Committee on..... 348
U. S. Standard Bronze..... 168
Universal Molding Machine, of Ph. Bonvillain & E. Ronceray.....298-361
Universal System of Machine Molding..... 361
University of Minnesotat, Foundry Course at 211
Valve Cores, Improved Method of Turning.... 15
Vanadium Steel 383
Venting Tool, Multiple..... 204
Volumes Through Air Ways, Table of..... 369
Wadsworth Portable Core Oven..... 205
Wagon Skeins 297
Walker, John A. Obituary..... 448
Water, High, in the Ohio Valley..... 182
Webb, James F. Sketch and Portrait..... 442
Welding of Steel, Autogenous..... 65
Westinghouse Electric & Mfg. Co., Cleveland Plant of 303
Wheels, Mine Car, Cracking of..... 196
" " " Iron for 56
White Metal Patterns..... 290
Wire, Inserting in Thin Core..... 526
Wood Shovel & Tool Co., Molder's Shovel.... 52
Zinc Dust, Nature of..... 429
" Electro-deposition of 479

Authors' Index to Volume XXX.

March 1907 to August 1907.

Akerlind, G. A. Chemical Properties of Malleable Cast Iron 216-376
Akerlind, G. A. Manufacture of Malleable Iron 154
Antisell, F. L. Copper for the Foundry..... 374
Betton, J. M. Sand Blasting Appliances..... 235
Buchanan, J. F. Brass Shells for Paper Mill Rolls 45
Buchanan, J. F. Use of Silicon-Copper..... 290
Buchanan, Robert. Thin Castings with Hard Cores 96
Campbell, C. B. Laboratory Brasses and Bronzes 168
Carr, W. M. Cold Air in Open-Hearth Practice 95
Carr, W. M. Combined Bull and Pouring Ladle 517
Carr, W. M. Cost of Equipping Open-Hearth Steel Foundries 179
Carr, W. M. Tropenas Steel Castings..... 515
Cutter, Henry B. Cast Thread Fittings..... 358
Davies, David J. Making Castings by the Direct Process 237
Davis, George C. A Peculiar Chilled Casting 18
Dayton, C. B. Foot Lever Core..... 493
Eggleston, D. Carl, M. E. Brass Foundry Cost Accounting 42
Estep, H. Cole. Foundry Course at University of Minnesota 211
Everitt, F. C. A Simple Foundry Cost System 173
Everitt, F. C. History of Associated Foundry Foremen 251
Fairlie, Andrew M. Science Applied to the Brass Industry 480
Field, H. E. Manganese in Cast Iron..... 476
Field, H. E. Technical Foundry Education.. 9
Fuller, B. D. Technical Foundry Education.. 99
Gebb, Wm. A Plea for the Apprentice..... 523
Hailstone, George. The Characteristics of Foundry Iron 20
Hearne, Wm. W. Science in the Foundry.... 91
Horne, Amiel B. Inserting Wire in a Thin Core 526
Hudson, O. F. The Microscopic Testing of Cast Iron 132
Jenkins, W. A. Cast Iron Pig Bed..... 30
Job, Robert. Iron Castings—Some Causes of Failure in Service..... 461
Johnson, C. E. Notes on Bronze Castings.... 382
Kane, W. H. The Oil Furnace vs. The Sheeler-Hemsher Improved Crucible Furnace.... 380
Keep, W. J. Annealing Pots for Malleable Iron 302
Keep, W. J. Cast Iron Notes....56-196-297-302-513
Keep, W. J. Quality of Castings at First and Last of Heat..... 302
Keller, G. W. Value of Technical Papers..... 19
Kelly, James R. Improved Method of Turning Valve Cores 15
Lake, E. F. Aluminum Castings 160
Lake, E. F. Bronze Castings for Automobiles 277
Ludwig, John. How Much Sand Should a Molder Use? 520
McCaslin, H. J. A Double Chute Hopper Pattern 185
McCaslin, H. J. Collapsible Patterns..... 116
McFadden, W. H. Presidential Address, A. F. A. Convention 332
McGohey, C. R. Molding a Double Flange Pulley by Machine..... 90
McQuillan, W. S. Comparative Cupola Practice 370
Miles, H. D. Jobbing Foundry Cost System... 84
Moldenke, Dr. Richard. Annealing Malleable Castings 60
Moldenke, Dr. Richard. Electric Smelting for the Foundry 82
Moldenke, Dr. Richard. Historical Sketch of the American Foundrymen's Association..... 238
Moldenke, Dr. Richard. Secretary's Report... 340
Moldenke, Dr. Richard. The Malleable Foundry as a Business Venture..... 521
Nall, Jabez. Casting under Difficulties..... 458
Nall, Jabez. Pattern for a Heavy Ajax Forging Machine Frame Casting..... 223
Nall, Jabez. Time Lost in the Core Room.... 38
Outerbridge, Alex. E., Jr. Use of Fluxes and Alloys 200
Palmer, R. H. Casting Rolls for Bending Boiler Plate 219
Palmer, R. H. Use of Liquid Glass..... 41
Parker, Jonas A. Automatic Polishing..... 379
Perrigo, Oscar E. Arrangement of a Pattern Shop in a Confined Space..... 464
Pilkington, Herbert. Foundry Pig Iron Specifications 272
Practical Traveling Man. Points for Brass Founders 108
Probert, R. H., M. E. Manufacturing Cost.... 62
Proctor, Chas. H. Electro-deposition of Brass 413
Ronceray, E. The Universal System of Machine Molding 361
Russel, Walter L. Gun Metal Liners..... 178
Sang, Alfred. The Art of Galvanizing.....417-486
Sauveur, Albert. Metallography Applied to Foundry Work 79
Shaw, John H. Sandless Castings..... 455
Simmons, Chas. E. Computing Length of Chords 99
Smith, Thomas. Casting Liners and Pump Plungers 110
Spence, David. Sound Castings..... 516
Stimpson, Wm. C. The Training in Foundry Work at Pratt Institute..... 494
Turne, C. B. Drawing Temper when Turning Hard Wood..... 523
Turne, C. B. Securing Bosses on Patterns.... 526
Tuttle, H. N. Segment Work..... 32
Vickers, C. Brass Foundry Notes.....
..... 44-112-166-288-290-416-484
Vickers, C. Casting Copper..... 288
Vickers, C. Gun Metal Liners..... 112
Vickers, C. Soft Bronze Mixtures..... 416
Vickers, C. Some Peculiarities of Alloys.... 483
Vickers, C. White Metal Patterns..... 290
Wadsworth, Geo. H. Core Room Practice, Past and Present..... 72